

# Change Logs v3.3.0

## Breaking Changes

- GET /auto\_forecasts/{auto\_forecast\_id}
  - Added enum values to the partial\_fit\_type field in the auto\_forecast\_bounds response key:
- PATCH /wells/dca
  - Import\_numerical forecast field is now nullable in the response
- PATCH /wells/dca\_saved\_cases
  - Import\_numerical forecast field is now nullable in the response
- GET /wells/{well\_id}/well\_dca/saved\_cases
  - Import\_numerical forecast field is now nullable in the response

## New Endpoints (4)

- PUT /multi\_well\_gas\_lift\_opt/{multi\_well\_gas\_lift\_id}/change\_injection\_rate
- GET /wells/dca/monthly\_rates
- GET /wells/dca\_saved\_cases/monthly\_rates
- PUT /wells/{well\_id}/analytical\_rta\_input

## Modified Endpoints (46)

### Base Data

- GET /fields
  - Responses now include two new properties per project:
    - access\_prodheaders\_maps
    - access\_wellheaders\_maps
- GET /fields/{field\_id}/projects
  - Responses now include two new properties per project:
    - access\_prodheaders\_maps
    - access\_wellheaders\_maps
- POST /fields/{field\_id}/projects
  - Request now include two new properties per project:
    - access\_prodheaders\_maps
    - access\_wellheaders\_maps
- POST /wells/data\_fields
  - data\_fields enum extended with a new value: skin
- GET /old\_wells\_paginated
  - new property skin added

- GET /wells
  - new property skin added
- PATCH /wells
  - new property skin added
- POST /wells
  - new property skin added
- POST /wells/bulk
  - new property skin added
- PATCH /wells/{well\_id}
  - new property skin added
- PUT /wells/{well\_id}
  - new property skin added
- GET /wells\_paginated
  - new property skin added
- GET /wells/{well\_id}
  - New property skin added
  - new property added in gas\_lift\_optimizer\_input & nodal analysis\_input:
    - current\_gas\_lift\_rate
    - from\_date
    - multi\_ipr
    - reservoir\_pressure\_locked
  - New properties added in vertical\_fraced\_input (within both history\_matching\_input and rta\_input):
    - display\_full
    - h\_f
    - visualization\_option
  - New property jet\_pump\_data added in multiple nested schemas:
    - nodal\_analysis\_input → named\_well\_data → well\_data\_named
    - tubing\_table\_input → well\_data\_forecast
    - vfp\_export\_input → well\_data
- GET /wells/light
  - return\_params enum extended with new value: skin
  - Response: new property skin

## Production Data

- GET /api-external/v1/wells/active\_production\_data
  - new properties added:

- power\_fluid\_rate
  - power\_fluid\_surface\_pressure
  - qsand
- GET /wells/{id}/active\_production\_data
  - new properties added:
    - power\_fluid\_rate
    - power\_fluid\_surface\_pressure
    - qsand
- GET /wells/production\_data
  - new properties added:
    - power\_fluid\_rate
    - power\_fluid\_surface\_pressure
    - qsand
- GET /wells/{id}/production\_data
  - new properties added:
    - power\_fluid\_rate
    - power\_fluid\_surface\_pressure
    - qsand
- POST /wells/production\_data
  - Request schema added new properties:
    - power\_fluid\_rate
    - power\_fluid\_surface\_pressure
    - qsand
- POST /wells/{id}/production\_data
  - Request schema added new properties:
    - power\_fluid\_rate
    - power\_fluid\_surface\_pressure
    - qsand

## BHP Data

- PATCH /wells/bhp\_input/well\_data
  - New property: jet\_pump\_data
- POST /wells/bhp\_input/well\_data/bulk
  - New property: jet\_pump\_data
- PUT /wells/bhp\_input/well\_data/{id}
  - New property: jet\_pump\_data
- GET /wells/{id}/bhp\_input/well\_data

- New property: jet\_pump\_data
- POST /wells/{id}/bhp\_input/well\_data
  - New property: jet\_pump\_data
- PATCH /wells/bhp\_inputs
  - New property: compute\_bhp\_no\_power\_fluid\_surface\_pressure
  - Nested well\_data objects updated with jet\_pump\_data
- PUT /wells/bhp\_inputs
  - New property: compute\_bhp\_no\_power\_fluid\_surface\_pressure
  - Nested well\_data objects updated with jet\_pump\_data
- PATCH /wells/bhp\_inputs\_no\_deviation\_survey
  - New property: compute\_bhp\_no\_power\_fluid\_surface\_pressure
  - Nested well\_data objects updated with jet\_pump\_data
- GET /wells/{id}/bhp\_input
  - New property: compute\_bhp\_no\_power\_fluid\_surface\_pressure
  - Nested well\_data objects updated with jet\_pump\_data
- PUT /wells/{id}/bhp\_input
  - New property: compute\_bhp\_no\_power\_fluid\_surface\_pressure
  - Nested well\_data objects updated with jet\_pump\_data

## DCA

- PATCH /wells/dca
  - New Properties:
    - dca\_liquid\_schedule
    - enable\_wor\_analysis
    - import\_sales\_products
    - use\_liquid\_schedule
  - Field import\_numerical\_forecast is now nullable
- POST /wells/dca\_saved\_case
  - New Properties:
    - dca\_liquid\_schedule
    - enable\_wor\_analysis
    - import\_sales\_products
    - use\_liquid\_schedule
  - Field import\_numerical\_forecast is now nullable
- PATCH /wells/dca\_saved\_cases
  - New Properties:
    - dca\_liquid\_schedule

- enable\_wor\_analysis
  - import\_sales\_products
  - use\_liquid\_schedule
- Field import\_numerical\_forecast is now nullable
- GET /wells/{id}/well\_dca/saved\_cases
  - New Properties:
    - dca\_liquid\_schedule
    - enable\_wor\_analysis
    - import\_sales\_products
    - use\_liquid\_schedule
  - Field import\_numerical\_forecast is now nullable
- GET /wells/dca\_saved\_cases/daily\_rates
  - result object updated with new properties:
    - gas
    - oil
    - water

## Auto-Forecast

- GET /api-external/v1/auto\_forecasts/{auto\_forecast\_id}
  - Response schema updated with new properties:
    - b2\_default
    - b2\_lock
    - b2\_max
    - b2\_min
    - days\_transition
    - months\_transition
    - partial\_fit\_ignore\_first\_x\_days
    - partial\_fit\_ignore\_last\_x\_days
    - transition\_type
    - years\_transition
  - partial\_fit\_type gained new enum values:
    - ignore\_first\_x\_days
    - ignore\_last\_x\_days

## Nodal Analysis VLP

- PUT /wells/{well\_id}/vlp\_case/{vlp\_case\_id}
  - Request and response body have new property power\_fluid\_surface\_pressure

- GET /wells/{well\_id}/vlp\_case/{vlp\_case\_id}
  - response body has new property power\_fluid\_surface\_pressure
- POST /wells/{well\_id}/vlp\_case/{vlp\_case\_id}
  - Request and response body have new property power\_fluid\_surface\_pressure

## Nodal Analysis Gradient

- PUT /wells/gradient\_cases/{gradient\_case\_id}
  - Request body: new properties:
    - power\_fluid\_rate
    - power\_fluid\_surface\_pressure
- POST /wells/gradient\_cases/{gradient\_case\_id}
  - Request body: new properties:
    - power\_fluid\_rate
    - power\_fluid\_surface\_pressure
- GET /wells/gradient\_cases/{gradient\_case\_id}
  - Response body: new properties:
    - power\_fluid\_rate
    - power\_fluid\_surface\_pressure

## Nodal Analysis Gas Lift Optimizer

- GET /wells/{well\_id}/fetch\_from\_ipr
  - result object updated with new properties:
    - current\_gas\_lift\_rate
    - from\_date
    - multi\_ipr
    - reservoir\_pressure\_locked
- GET /wells/{well\_id}/run\_ipr\_with\_date
  - New query params:
    - from\_date
    - from\_day
  - new properties in response:
    - current\_gas\_lift\_rate
    - from\_date
    - multi\_ipr
    - reservoir\_pressure\_locked
  - Nested schema: new property jet\_pump\_data in named\_well\_data → well\_data\_named

## Multi Well Gas Lift Optimizer

- GET /api-external/v1/multi\_well\_gas\_lift\_opt/{multi\_well\_gas\_lift\_id}/settings
  - Response schemas updated with new properties:
    - injection\_rate\_days
    - injection\_rate\_type
    - rates\_and\_pressure\_last\_production\_days
- PUT /api-external/v1/multi\_well\_gas\_lift\_opt/{multi\_well\_gas\_lift\_id}/settings
  - Both request and response schemas updated with new properties:
    - injection\_rate\_days
    - injection\_rate\_type
    - rates\_and\_pressure\_last\_production\_days